

PMG-DCh

Permanent Magnet Generator
+ DCh System*
+ Actuator kit



PMG-DCh includes:

Permanent Magnet Generator at variable speed, with built-in rectifier bridges directly granting a DC output. It's bearingless and brushless.

DCh System: suitable for charging batteries. *It is supplied as a kit of loose components (previously tested) to be assembled by the customer: plug&play controller with interface board, current sensors and contactor.

Actuator kit: to regulate the engine revolutions.

The system works at variable speed with the aim of constantly adjusting the engine speed according to the power demand of load and battery. At the same time ensuring an optimised battery charge cycle.

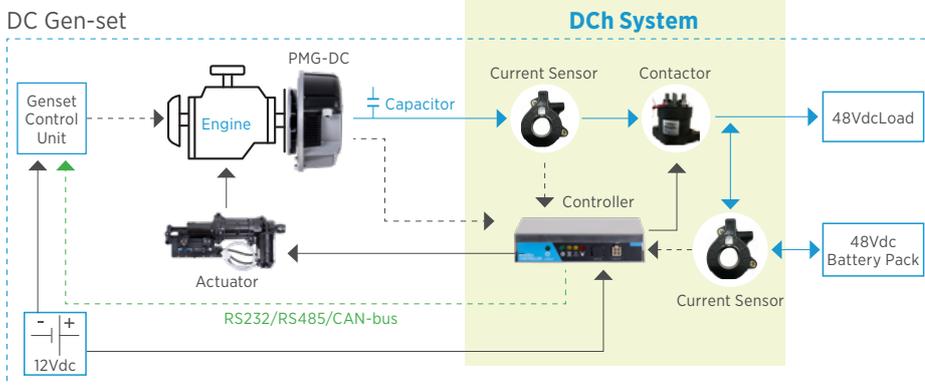
Each PMG-DCh is developed according to the specific engine model, gen-set control unit and battery pack.

It works as a battery charger thanks to the controller's smart battery management.

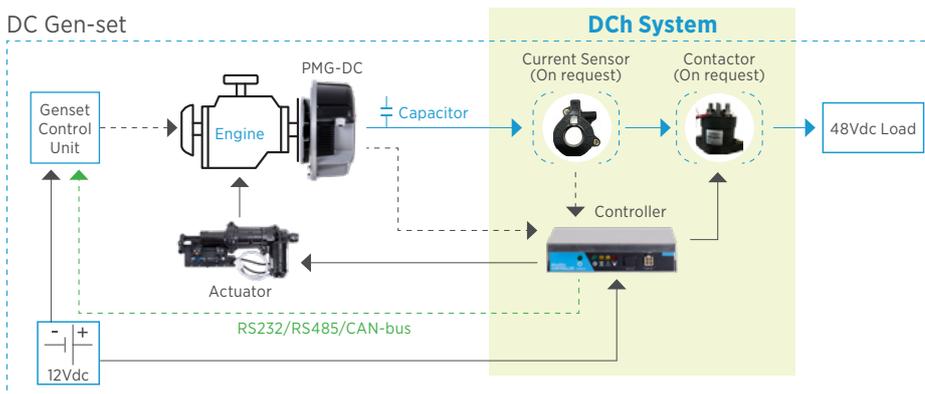
In order to preserve a good state of the battery pack, extend its life and bring back the capacity to the maximum value, there is the possibility of carrying out a deep charge, i.e. extend the standard charge for a few hours.

The Controller monitors voltage and current of the battery pack and load.

The settings are adjustable through a programmer, via USB pen drive or via serial connection (from the gen-set control unit).



In the event that there is no battery but it is necessary to ensure voltage stability (+/- 1,5%) in all load conditions, a more simplified version can be provided.



Technical characteristics

- Key features:**
- Built-in rectifier bridges on the PMG granting DC output power directly from the generator.
 - Speed range: the output voltage is directly connected to the engine speed.
 - Voltage ripple depending on the number of engine cylinders, the weight/dimensions of the engine flywheel and the PMG.
 - Protections: 2 built-in Pt100 temperature sensors (both on the windings and heatsink) with automatic derating.

- Safety features:**
- Output short circuit protection
 - Output reverse voltage protection (battery)
 - Under and over-voltage protection
 - Under and over-speed protection
 - Over-temperature protection
 - Overload protection

Technical data not binding: NSM reserves the right to modify the contents without prior notice.